

ABSTRACT

[0021] A luminous discharge display device having two distinct, independent discharge chambers, stacked vertically; of substantially flat circular shape containing inert gas mixtures. and a central electrode coupled to a power supply which provides ionizing means for the gas. The device utilizes two grooves formed into defining members of the discharge chambers to increase the capacitance along their length due to the inverse relationship between dielectric width and capacitance. Two electrode assemblies are biased out of phase with respect to the main electrode further increasing the capacitance and converging the luminous discharge at that specific point and are fitted into the circular grooves. A clock mechanism moves the electrode assemblies along their respective grooves thus creating a controlled motion of the luminous glowing plasma.